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AMENDMENTS TO THE CLAIMS

1. (CURRENTLY AMENDED) A refrigeration system of the type having a main refrigeration circuit, wherein a first refrigerant goes through at least a compression stage having at least one compressor, wherein said first refrigerant is compressed to a high-pressure gas state to then reach a condensation stage, wherein said refrigerant in said high-pressure gas state is condensed at least partially to a high-pressure liquid state to then reach an expansion stage, wherein said first refrigerant in said high-pressure liquid state is expanded to a first low-pressure liquid state to then reach an evaporation stage, wherein said first refrigerant in said first low-pressure liquid state is evaporated at least partially to a first low-pressure gas state by absorbing heat, to then return to said compression stage, refrigeration system comprising an energy-storage stage in parallel to the evaporation stage, the energy-storage stage having a container in which a medium is disposed in heatexchange relationship with a second refrigerant, the second refrigerant being circulated in a closed loop in heatexchange relationship with the first refrigerant, such that said first refrigerant absorbs heat from said medium through the second refrigerant during a period of a day where the at least one compressor is less in demand, said medium being directed used thereafter as a heat absorber in to an evaporation stage to absorb heat in of an air-conditioning cycle.

2.-3 (CANCELED)

4. (PREVIOUSLY PRESENTED) The refrigeration system according to Claim 1, wherein the medium changes phases by heat exchange with said second refrigerant.

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- 5. (ORIGINAL) The refrigeration system according to Claim 4, wherein said phases are liquid and solid.
- 6. (ORIGINAL) The refrigeration system according to Claim 1, wherein the energy-storage stage is operated at night to absorb heat from the medium, and is operated at day to have said medium absorb heat from ventilation air.
- 7. (ORIGINAL) The refrigeration system according to Claim 1, wherein a volume of medium contained in the container has an energy-storing capacity above a summer day's airconditioning load.
- 8. (PREVIOUSLY PRESENTED) A combination of a refrigeration system and an energy-storage system therebetween, comprising:
- a refrigeration system having a refrigeration circuit, wherein a first refrigerant goes through at least a compression stage having at least one compressor, wherein said first refrigerant is compressed to a high-pressure gas state to then reach a condensation stage, wherein said first refrigerant in said high-pressure gas state is condensed at least partially to a high-pressure liquid state to then reach an expansion stage, wherein said first refrigerant in said high-pressure liquid state is expanded to a first low-pressure liquid state to then reach an evaporation stage, wherein said first refrigerant in said first low-pressure liquid state is evaporated at least partially to a first low-pressure gas state by absorbing heat, to then return to said compression stage;

an energy-storage stage having a container retaining a medium and heat exchange means in a ventilation system, the container being disposed such that said first refrigerant absorbs heat from said medium during a period of a day where the at least one compressor is less in demand, said medium being directed to said heat-exchange means

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thereof to absorb heat from air in the ventilation system; and

a closed loop having a second refrigerant, the closed loop being in heat-exchange relationship with the first refrigerant such that the second refrigerant releases the first refrigerant, and in heat-exchange the second the medium such that with relationship refrigerant absorbs heat from the medium, whereby the first refrigerant absorbs heat from said medium through said second refrigerant.

9.-10 (CANCELED)

- 11. (ORIGINAL) The combination according to Claim 8, wherein the medium is in said heat-exchange relation with said refrigerant at night, and absorbs heat in the ventilation system at day.
- 12. (PREVIOUSLY PRESENTED) The combination according to Claim 8, wherein the medium changes phases by heat exchange with said second refrigerant.
- 13. (ORIGINAL) The combination according to Claim 12, wherein said phases are liquid and solid.
- 14. (CURRENTLY AMENDED) A method for storing energy from a refrigeration system having a first refrigerant undergoing compression, condensation, expansion and evaporation stages of a refrigeration cycle, comprising the steps of:
- i) providing a container having a medium in a first state and heat exchange means for heat exchange with said medium, and a closed loop having a second refrigerant connected to said heat exchange means and in heat exchange relationship with said first refrigerant;
- ii) directing a portion of said first refrigerant from the expansion stage such that said first

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refrigerant absorbs heat from said second refrigerant which absorbs heat from the medium to absorb heat from said medium during a period of a day where the compression is less in demand, such that said medium in said container is in a second state wherein said medium is cooled with respect to the first state, and

iii) cooling air of a ventilation system by heat exchange with said medium in said second state such that said medium generally returns to said first state.

15.-16 (CANCELED)

- 17. (ORIGINAL) The method according to Claim 14, wherein step ii) is performed during a substantially greater portion of a time period of a day having a first electricity tariff, and step iii) is performed during a substantially greater portion of another time period of a day having a second electricity tariff, said second electricity tariff being higher than said first electricity tariff.
- 18. (ORIGINAL) The method according to Claim 14, wherein step ii) is performed during a half portion of a day wherein the refrigeration system operates at a lower capacity in the refrigeration cycle, and step iii) is performed during a remaining half portion of the day wherein the refrigeration system operates at a higher capacity.
- 19. (ORIGINAL) The method according to Claim 14, wherein step ii) is performed at night and step iii) is performed in daytime.
- 20. (ORIGINAL) The method according to Claim 14, wherein step ii) is performed between 9:00 p.m. and 7:00 a.m. and step iii) is performed between 7:00 a.m. and 9:00 p.m.